

Title (en)

Liquid discharge head, method of manufacture therefor and liquid discharge recording apparatus

Title (de)

Flüssigkeitsausstosskopf, Herstellungsverfahren dafür und Apparat zum Aufzeichnen durch Flüssigkeitsausstoss

Title (fr)

Tête d'éjection de liquide, procédé pour sa fabrication et appareil d'enregistrement à éjection de liquide

Publication

**EP 1027992 A2 20000816 (EN)**

Application

**EP 00102700 A 20000209**

Priority

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- JP 3327199 A 19990210
- JP 14854199 A 19990527
- JP 18962399 A 19990702

Abstract (en)

A method for manufacturing a liquid discharge head comprises the steps of providing a head main body (46) having liquid flow paths, and an aperture surface having flow path openings communicated with the flow paths; providing a discharge port plate (40) having extrusions (45) each on the circumference of an inside opening communicated with each of the discharge ports, being on the inner face on the side opposite to the discharge port surface provided with discharge ports for discharging liquid, and a base having a substantially flat surface. For this method, the discharge port plate is arranged in a state of these surfaces formed integrally to be in contact; bonding the aperture surface and the inner face to fit the extrusions into the flow path openings by pressing the head main body and the base in the direction of the head main body and the base approaching each other with the discharge port plate between them; and separating the base from other members. With the method of manufacture thus structure, the liquid discharge head presents an excellent discharge efficiency by the provision of the extrusions that enter the flow paths from the orifice plate. It also becomes possible to manufacture a highly reliable liquid discharge head by a simpler manufacturing apparatus in a shorter period of time at lower costs. <IMAGE>

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CPC (source: EP US)

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